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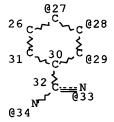
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This file contains CAS Registry Numbers for easy and accurate substance identification.

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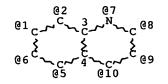
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GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 34

STEREO ATTRIBUTES: NONE

L29 1324 SEA FILE=REGISTRY SSS FUL L27

L36 STR



VAR G1=7/8/9/10/1/2/5/6

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC :

NUMBER OF NODES IS 19

STEREO ATTRIBUTES: NONE

L37 163 SEA FILE=REGISTRY SUB=L29 SSS FUL L36 L38 24 SEA FILE=HCAPLUS ABB=ON PLU=ON L37

L39 22 SEA FILE=HCAPLUS ABB=ON PLU=ON L38 NOT BOUCHARD?/AU

=>

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=> d ibib abs hitstr 139 1-22

L39 ANSWER 1 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:776482 HCAPLUS Full-text

DOCUMENT NUMBER: 142:1569

TITLE: Stabilization of the c-myc gene promoter quadruplex by

specific ligands' inhibitors of telomerase

AUTHOR(S): Lemarteleur, Thibault; Gomez, Dennis; Paterski, Rajaa;

Mandine, Eliane; Mailliet, Patrick; Riou,

Jean-Francois

CORPORATE SOURCE: Laboratoire d'Onco-Pharmacologie, UFR de Pharmacie,

Universite de Reims Champagne-Ardenne, Reims, 51096,

Fr.

SOURCE: Biochemical and Biophysical Research Communications

(2004), 323(3), 802-808

CODEN: BBRCA9; ISSN: 0006-291X

PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English

AB A parallel G-quadruplex structure was recently identified in the NHE III1 element of the c-myc gene promoter that functioned as a transcriptional repressor. Different series of telomeric G-quadruplex interacting ligands reported to block telomerase activity were evaluated in a new PCR stop assay on the c-myc quadruplex (Pu22myc). Results indicated that the cationic porphyrin TMPyP4 previously described to stabilize c-myc quadruplex and to cause transcription inhibition efficiently inhibited the assay but with a narrow selectivity when parallel expts. were performed with an oligonucleotide (Pu22mu) containing mutations in the guanine repeat which is unable to form a quadruplex. Other ligands presented potent inhibitory properties with IC50 in the submicromolar range. 307A, a new 2,6-pyridin-dicarboxamide derivative was found to present the highest selectivity as compared to Pu22mu oligonucleotide (>90-fold). Comparison with telomeric G-quadruplex using TRAP-G4 and PCR stop assays also indicated that ligands 307A, telomestatin, and TMPyP4 are equipotent against both c-myc and telomeric sequences while other ligands displayed some partial selectivity (2- to 6-fold) towards one of

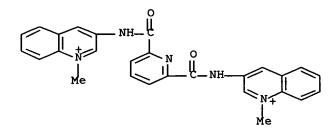
these sequences. This work provides evidence that G-quadruplex ligands reported as telomerase inhibitors efficiently stabilized c-myc promoter intramol. quadruplex and may also potentially be used to inhibit c-myc gene transcription in tumor cells.

IT **794458-56-3**, 307A

RL: BSU (Biological study, unclassified); BIOL (Biological study) (stabilization of c-myc gene promoter quadruplex by specific ligands' inhibitors of telomerase)

RN 794458-56-3 HCAPLUS

CN Quinolinium, 3,3'-[2,6-pyridinediylbis(carbonylimino)]bis[1-methyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L39 ANSWER 2 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 2004:566908 HCAPLUS Full-text

DOCUMENT NUMBER: 141:260514

TITLE: Design of an Inversion Center between Two Helical

Segments

AUTHOR(S): Maurizot, Victor; Dolain, Christel; Leydet, Yoann;

Leger, Jean-Michel; Guionneau, Philippe; Huc, Ivan

CORPORATE SOURCE: Institut Europeen de Chimie et Biologie, Pessac,

33607, Fr.

SOURCE: Journal of the American Chemical Society (2004),

126(32), 10049-10052

CODEN: JACSAT; ISSN: 0002-7863

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

AB A new strategy is proposed to control the relative orientation of two folded helical oligomers in such a way that they diverge from an aromatic linker and have opposite helical handedness. Mutual steric exclusion between the two helixes results from the fact that they cannot be at the same time folded and on the same side of the linker. The concept is validated using the helical conformations of oligomides of 8-amino-2-quinolinecarboxylic acid, but it should be applicable to many families of oligomers and leads to the first designed meso-helixes.

IT 754216-32-5P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (crystal structure; preparation and crystal structure of oligoamides of amino-quinolinecarboxylic acid with an inversion center between two helical segments)

RN 754216-32-5 HCAPLUS

CN 2-Quinolinecarboxylic acid, 8,8'-[(2,5-dimethoxy-1,4-phenylene)bis[carbonylimino[4-(2-methylpropoxy)-8,2-quinolinediyl]carbonylimino[4-(2-methylpropoxy)-8,2-quinolinediyl]carbonylimino[4-(2-methylpropoxy)-8,2-quinolinediyl]carbonylimino]bis[4-(2-methylpropoxy)-, dimethyl ester (9CI) (CA INDEX NAME)

PAGE 1-A

REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L39 ANSWER 3 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 2002:407940 HCAPLUS Full-text

DOCUMENT NUMBER:

137:212419 .

TITLE:

Reversal of polyamine selectivity for DNA and RNA by

steric hindrance

AUTHOR(S):

Lomadze, Nino; Schneider, Hans-Jorg

CORPORATE SOURCE:

FR 11.2 Organische Chemie der Universitat des

Saarlandes, Saarbrucken, D-66041, Germany Tetrahedron Letters (2002), 43(24), 4403-4405

CODEN: TELEAY; ISSN: 0040-4039

PUBLISHER:

SOURCE:

Elsevier Science Ltd.

Journal

DOCUMENT TYPE: LANGUAGE: English

AB The polyamines known until today generally bind better to double-stranded RNA than to DNA, as shown in significantly higher m.p. increases with RNA. We report that large and bulky polyamines with three or four pos. charged nitrogen centers connected via flexible or rigid linkers to either a benzene or an adamantane core show high affinities and are large enough to exhibit a strong preference for double-

10721,210

stranded DNA (polydApolydT) in comparison to RNA (polyApolyU), which differs by its smaller and deeper groove.

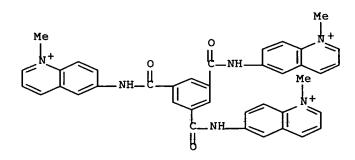
IT 457646-83-2

CN

RL: BSU (Biological study, unclassified); BIOL (Biological study) (bulky polyamines exhibit higher affinity for DNA than RNA due to steric hindrance of bulky groups of polyamines)

RN 457646-83-2 HCAPLUS

Quinolinium, 6,6',6''-[1,3,5-benzenetriyltris(carbonylimino)]tris[1-methyl-(9CI) (CA INDEX NAME)



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L39 ANSWER 4 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 1998:512965 HCAPLUS Full-text

DOCUMENT NUMBER: 129:239452

TITLE: Molecular modeling and footprinting studies of DNA

minor groove binders: bisquaternary ammonium

heterocyclic compounds

AUTHOR(S): Slickers, P.; Hillebrand, M.; Kittler, L.; Lober, G.;

Suhnel, J.

CORPORATE SOURCE: Inst. Mol. Biotechnol., Jena, D-07708, Germany

SOURCE: Anti-Cancer Drug Design (1998), 13(5), 463-488

CODEN: ACDDEA; ISSN: 0266-9536

PUBLISHER: Oxford University Press

DOCUMENT TYPE: Journal LANGUAGE: English

The authors report new quant. footprinting data which reveal differences in binding AB consts. of bisquaternary ammonium heterocyclic compds. (BQA) with AT-rich DNA sites depending on the ligand structure and on the size and sequence of the DNA binding site. To understand the dependence of binding affinity on the ligand structure the authors have performed quantum-chemical AM1 calcns. on the BQA compds. and on subunits to explore the conformational space and to calculate the electronic and structural features of individual ligand conformations. Due to the properties of the rotatable backbone bonds, there is a large number of possible conformations with almost equal energy. The authors present a new method for the calcn. of the radius of curvature of mol. structures. Assuming that strong binders should have a shape complementary to the DNA minor groove, this measure is used to select the optimum conformations for DNA-drug binding. The approach yields the correct ligand conformation for SN6999, for which an x-ray DNA-drug structure is known. The curvature of the optimum conformations of all ligands is compared with the exptl. binding consts. A correlation is found between curvature and binding constant provided other structural factors do not vary. Therefore, the authors conclude that within structurally similar BQA compds., the extent of curvature is the relevant quantity which modulates the binding affinity.

RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PROC (Process)

(mol. modeling and footprinting studies of DNA minor groove binders using bisquaternary ammonium heterocyclic compds.)

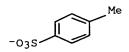
RN 14120-88-8 HCAPLUS

Quinolinium, 6,6'-[1,4-phenylenebis(carbonylimino)]bis[1-butyl-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CN

CRN 16722-51-3 CMF C7 H7 O3 S



CM 2

CRN 14106-77-5 CMF C34 H36 N4 O2

$$\begin{array}{c} n-Bu \\ N+ \\ N-Bu \end{array}$$

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L39 ANSWER 5 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 1998:298609 HCAPLUS Full-text

DOCUMENT NUMBER: 129:1388

TITLE: Sequence specific modulation of DNA restriction enzyme

cleavage by minor groove binders

AUTHOR(S): Kittler, Leonhard; Bell, Achim; Baguley, Bruce C.;

Loeber, Guenter

CORPORATE SOURCE: Institut Molekulare Biotechnologie e.V., Jena,

D-07745, Germany

SOURCE: Biological Chemistry (1998), 379(4/5), 519-525

CODEN: BICHF3; ISSN: 1431-6730

PUBLISHER: Walter de Gruyter & Co.

DOCUMENT TYPE: Journal LANGUAGE: English

AB The inhibition of restriction endonuclease cleavage by a series of bisquaternary ammonium derivs. (BQA-derivs.) which bind to the minor groove of DNA was studied. The derivs. considered included 6 sequence-selective binders (SN 6570, SN 6999, SN 6050, SN 6132, SN 6131, and SN 18071) and 4 non-specific binders (SN 6113, SN 5754, SN 6324, and SN 4094) and can be distinguished by their activity on restriction

endonucleases. Digestion expts. with pUC19 DNA were monitored electrophoretically using the transition of the covalently closed circular (ccc) DNA into the linear double stranded (Ids) one. Only the sequence-specific binders inhibit the cleavage activity of restriction endonucleases EcoRI, SspI and DraI with 4 and 6 dAdT-base pairs within their restriction sites, while the activity of SalI and BamHI with less than 4 dAdT-sequences was unaffected. In contrast, the non-specific binding ligands were incapable of suppressing enzyme digestion. The inhibition of the restriction endonuclease PvuII indicates that ligand binding in close vicinity to the cleavage sites is also involved in the enzyme inhibition. The dAdT-content in proximity to the palindromic sequences of 3 DraI cutting sites in pUC19 DNA explains why the derivative SN 6053 protects these sequences in different manners. Gel shift expts. indicated that BQA-derivs. inhibit the DNA-enzyme complex formation if the ligand was added to the DNA before the enzyme. In contrast, complex formation between DNA and enzyme remained unchanged when the enzyme was added 1st.

14120-88-8, SN 4094

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(sequence specific modulation of DNA restriction enzyme cleavage by minor groove binding bisquaternary ammonium derivs.)

14120-88-8 HCAPLUS

Quinolinium, 6,6'-[1,4-phenylenebis(carbonylimino)]bis[1-butyl-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

IT

RN

CN

CRN 16722-51-3 CMF C7 H7 O3 S

CM 2

CRN 14106-77-5 CMF C34 H36 N4 O2

L39 ANSWER 6 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 1998:154908 HCAPLUS Full-text

DOCUMENT NUMBER: 128:237185

TITLE: Silver halide photographic material and processing

thereof

INVENTOR(S): Takizawa, Hiroo

PATENT ASSIGNEE(S):

SOURCE:

Fuji Photo Film Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 74 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent Japanese

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10062896	A2	19980306	JP 1996-232629	19960815
PRIORITY APPLN. INFO.:			JP 1996-232629	19960815

The title material possesses, on a support, ≥ 1 photog. constitutive layers ≥ 1 of AΒ which contains a color developing agent R11NHNHXR12 [R11 = aryl or heterocycle; R12 = alkyl, alkenyl, alkynyl, aryl, heterocycle; X = SO2, CO, COCO, CO2, CONR13, COCO2, COCONR13, SO2NR13; R13 = H, alkyl, alkenyl, alkynyl, aryl, heterocycle] and ≥1 dyeforming coupler selected from C1M1aD1M2bC2, C1M1aD1M2bC2M3cD2M4dC3, and C1M1aE(M2bC2)(M3cC3) [C1-3 = coupler residue forming a dye upon coupling with the oxidized product of the above developing agent; M1-4 = 0, CO2, CO, NR70, CONR70, NR70CONR71, OCONR70, SO2NR70, NR70SO2NR71, P(:O)OR70NR71, P(:O)R70NR71 (R70, R71 = H, alkyl, alkenyl, cycloalkyl, aryl), S, SO, SO2; a, b, c, d = 0 or 1; D1, D2 = divalent linking group; E = trivalent linking group]. The material is heatdeveloped at $50-200\degree$ or developed in a solution to form an image. The material shows good coloring properties upon development and provides high color quality images with high d. and sharpness even when used couplers having a substituent in its active position.

204757-53-9 IT

RL: TEM (Technical or engineered material use); USES (Uses) (photog. film containing hydrazine derivative color developer and color-forming coupler)

204757-53-9 HCAPLUS RN

Benzoic acid, 2,5-bis[{(8-chloro-1,2,3,4-tetrahydro-5-hydroxy-4,4-dimethyl-CN 2-oxo-6-quinolinyl)amino]carbonyl]-, dodecyl ester (9CI) (CA INDEX NAME)

L39 ANSWER 7 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1996:636162 HCAPLUS Full-text

DOCUMENT NUMBER:

CORPORATE SOURCE:

125:321371

TITLE:

Inhibition of restriction endonucleases by DNA

sequence-reading ligands

AUTHOR(S):

Kittler, L.; Bell, A.; Baguley, B. C.; Loeber, G. Inst. Molekulare Biotechnologie e.V., Jena, D-07745,

Germany

SOURCE:

Biochemistry and Molecular Biology International

(1996), 40(2), 263-272

CODEN: BMBIES; ISSN: 1039-9712

PUBLISHER: DOCUMENT TYPE: Academic Journal

LANGUAGE:

English

DNA sequence-reading bisquaternary ammonium heterocycles SN 6570, SN 6999, SN 6053, AB SN 6132, SN 6131, SN 18071 and the non-specific binders SN 6113, SN 5754, SN 6324, and SN 4094 influence the enzymic activity of restriction endonucleases in different manners. A prerequisite for sequence-specific ligand interaction is a dAdT run of at least four base pairs. The sequence-specific binders inhibit the cleavage activity of restriction endonucleases EcoRI, SspI, and DraI with four and six dAdT base pairs in their restriction sites, while the activity of SalI and BamHI with less than four dAdT base pairs in their recognition motifs remains unaffected. On the contrary, the non-specific binding DNA ligands are incapable of suppressing the digestion for restriction nucleases under research. These results are in line with our footprint data. The inhibitory effect is independent of the number of cleavage sites in DNA and of whether the macromols. exists in the ccc or lds conformation. Sequence specific binding of the ligand SN 6053 in close vicinity to the cleavage sites of restriction endonuclease DraI also interferes with enzyme inhibition. IT

14120-88-8, SN 4094

RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(inhibition of restriction endonucleases by DNA sequence-reading ligands)

RN 14120-88-8 HCAPLUS

Quinolinium, 6,6'-[1,4-phenylenebis(carbonylimino)]bis[1-butyl-, salt with CN 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 16722-51-3 CMF C7 H7 O3 S

CM 2

14106-77-5 CMF C34 H36 N4 O2

$$\begin{array}{c} n-Bu \\ N+ \\ N-Bu \end{array}$$

L39 ANSWER 8 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 1996:320977 HCAPLUS Full-text

DOCUMENT NUMBER: 125:10846

TITLE: Preparation of 1,4-bis(ureidoalkyl)cyclohexane or

-piperazine derivatives as acyl coenzyme A:cholesterol

10721,210

acyltransferase inhibitors and antioxidants

INVENTOR(S): Sueda, Noryoshi; Yamada, Kazuhiko; Miura, Katsutoshi;

Kinoshita, Nobusuke; Hiramoto, Shigeru; Katsuyama,

Koichi; Tsukada, Yoko

PATENT ASSIGNEE(S): Nisshin Flour Milling Co, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 35 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
				
JP 08041006	A2	19960213	JP 1994-184380	19940805
PRIORITY APPLN. INFO.:			JP 1994-184380	19940805

OTHER SOURCE(S): MARPAT 125:10846

GI

AB The title compds. [I; R1 = H, C1-6 alkyl, phenyl-C1-6 alkyl, 3,5-di-tert-butyl-4hydroxybenzyl; R2, R3 = H, C1-12 alkyl, geranyl, C3-12 cycloalkyl, di-C1-6 alkylamino-C1-6 alkyl, (un) substituted Ph, 3,5-di-tert-butyl-4-hydroxybenzyl, 5-oxo-1-phenylpyrazolinyl, 3-methyl-5-oxo-1-phenylpyrazolinyl, pyridyl; or NR2R3 = hydroxy-1,2,3,4-tetrahydroquinolyl, 6-ethoxy-2,2,4-trimethyl-1,2,3,4tetrahydroquinolyl; A = CH, N], which protect low d. lipoproteins (LDL) from oxidative alterations, and are useful as hypocholesteremics and antiarteriosclerotics, are prepared Thus, a solution of 1.50 g 3,5-di-tert-butyl-4hydroxybenzoic acid in 20 mL toluene was treated 0.67 g Et3N and 1.73 g (PhO)2P(O)N3, stirred at room temperature for 3 h, heated at 80-90° with stirring, cooled to $\leq 0^{\circ}$, treated dropwise with a solution of 1.14 q 1,4-bis[3-(benzylamino)propyl]piperazine in toluene, and stirred overnight while gradually warmed to room temperature to give, after silica gel chromatog., the title compound (II) in 13% yield. II.HCl in vitro inhibited acyl CoA:cholesterol acyltransferase prepared from rabbit's liver microsome fractions by 87% at 10-6 M (assay described by Kazuichi Natori in Japan I. pharmacol., 1986) in and inhibited the formation of malonaldehyde in human LDL in the presence of CuSO4 by 99% at 5 + 10-6 M (assay described by Simon J.T. Mao in J. Med. Chem, 1991). A granule formulation containing II was described.

IT 176905-88-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of bis(ureidoalkyl)cyclohexane or -piperazine derivs. as acyl CoA:cholesterol acyltransferase inhibitors and antioxidants)

RN 176905-88-7 HCAPLUS

CN 1,4-Cyclohexanedicarboxamide, N,N'-bis[3,4-dihydro-6-(phenylmethoxy)-1(2H)-

quinolinyl] - (9CI) (CA INDEX NAME)

L39 ANSWER 9 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1996:319811 HCAPLUS Full-text

DOCUMENT NUMBER: 125:48533

TITLE: Sequence-specific binding of antitumor bisquaternary

ammonium heterocycles to DNA and inhibition of

polymerase activity in vitro

AUTHOR(S): Kittler, L.; Waehnert, U.; Bauguley, B. C.; Bailly,

C.; Waring, M. J.; Loeber, G.

CORPORATE SOURCE: Inst. Molekulare Biotechnol., Univ. of Auckland Med.

Sch., Auckland, N. Z.

SOURCE: Anti-Cancer Drug Design (1996), 11(2), 101-115

CODEN: ACDDEA; ISSN: 0266-9536

PUBLISHER: Oxford University Press

DOCUMENT TYPE: Journal LANGUAGE: English

AB Ten bisquaternary ammonium heterocycles (BQA) active against exptl. tumors were investigated for possible sequence-selective binding to DNA. Footprinting analyses indicated that several bond preferentially to dAdt runs consisting of at least four base pairs. Shortening of one or two spacer groups between the aromatic rings of the ligands (by replacement of CONH with NH) emerged as a prerequisite for sequence-specific binding. Other relevant factors concerned the overall shape of the ligands and the relative position of their pos. charges. Footprinting plots evaluated for the BQA compound SN 6132 on the 167mer EcolRI-RsaI restriction fragment from plasmid pBR322 yielded the highest individual binding constant for the sym. base sequence AATTTAA, with approx. KA=2.0+106/M. Polymerase-catalyzed synthesis of DNA and RNA in vitro were inhibited by all BQA derivs., but the inhibition was much more pronounced with the sequence-specific binders SN 6999 and SN 6132 than with the non-specific ligand SN 6113.

IT 14120-88-8, SN 4094

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

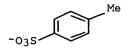
(sequence-specific binding of antitumor bisquaternary ammonium heterocycles to DNA and inhibition of polymerase activity in vitro)

RN 14120-88-8 HCAPLUS

CN Quinolinium, 6,6'-[1,4-phenylenebis(carbonylimino)]bis[1-butyl-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 16722-51-3 CMF C7 H7 O3 S



CRN 14106-77-5 CMF C34 H36 N4 O2

L39 ANSWER 10 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1996:123665 HCAPLUS Full-text

DOCUMENT NUMBER: 124:160548

TITLE: Color filter for display devices and its manufacture

using silver halide emulsions

INVENTOR(S): Hirai, Hiroyuki; Sato, Kozo
PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 29 pp.

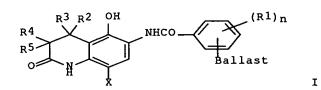
CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT:]

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07294714	A2	19951110	JP 1994-84315	19940422
JP 3356872	В2	20021216		
PRIORITY APPLN. INFO.:			JP 1994-84315	19940422
GI				



AB In the title filter manufactured by (1) pattern-wise-exposing a photosensitive material comprised of an optically transparent substrate and ≥3 Ag halide emulsion

layers containing cyan, magenta, and/or yellow couplers, (2) color developing, (3) bleach-fixing, and (4) washing, the cyan coupler is represented by I (R1 = halo, alkyl, alkoxy, acylamino, carbamoyl; n = 0-4; R2, R3 = alkyl, aryl; R4, R5 = H, alkyl; X = H, group capable of leaving upon oxidative coupling reaction with developing agent; Ballast = non-diffusing group with ≥12 carbons).

IT 173731-60-7

> RL: DEV (Device component use); USES (Uses) (cyan coupler; color filter for display devices and its manufacture using silver halide emulsions)

173731-60-7 HCAPLUS RN

CN 1,3-Benzenedicarboxamide, N,N'-bis(8-chloro-1,2,3,4-tetrahydro-5-hydroxy-4,4-dimethyl-2-oxo-6-quinolinyl)-5-[[2-[2-chloro-4-(1,1,3,3tetramethylbutyl)phenoxy]-1-oxotetradecyl]amino]- (9CI) (CA INDEX NAME)

PAGE 2-A

Иe

L39 ANSWER 11 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN 1994:163996 HCAPLUS Full-text ACCESSION NUMBER:

DOCUMENT NUMBER:

120:163996

TITLE:

SOURCE:

Preparation of bisamineimides containing quinolinium

or pyridinium cations

INVENTOR(S):

Maruyama, Koji

PATENT ASSIGNEE(S):

Sekisui Chemical Co. Ltd., Japan Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent Japanese

LANGUAGE:

1

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.

KIND DATE APPLICATION NO.

DATE

JP 05279335
PRIORITY APPLN. INFO.:
OTHER SOURCE(S):

A2 19931026 JP 1992-79982 JP 1992-79982 19920401

19920401

CASREACT 120:163996; MARPAT 120:163996

GI

$$(R)_4 + [2N^- - Q^+]_2$$
 $(R)_4 + [SO_2 - N^- - P^+]_2$ II

The title compds. [I and II; Z = CO, SO2; R = H, C1-6 alkyl; Q+ = (un)substituted AB quinolinium cation] and P+N-CONH-R1-NHCON-P+ [III; R1 = C1-15 bivalent hydrocarbon group; P+ = (un)substituted pyridinium cation], useful as photocrosslinking agents which provide photosensitive resin compns. having excellent storage stability, without discoloration of resins during hardening, and with good heat resistance for the photocured resins, are prepared I are prepared by reaction of (un) substituted quinolines with aminating agents and reaction of the resulting 1-aminoquinolinium salts with aromatic dicarboxylic acids, disulfonic acids, or their reactive derivs. II and III are prepared by reaction of (un) substituted pyridine with aminating agents and reaction of the resulting 1-aminopyridinium salts with aromatic disulfonic acids and diisocyanates, resp. Thus, quinoline was stirred with 0-(mesitylenesulfonyl) hydroxylamine in CH2Cl2 at room temperature to give Naminoquinolinium mesitylenesulfonate, which was stirred with terephthaloyl chloride in MeCN containing Et3N at room temperature overnight to give 85% N,N'-bis(1quinoliniumyl) terephthalimide.

IT 153143-26-1P, N,N'-Bis(1-quinoliniumyl)terephthalimide 153143-27-2P, N,N'-Bis(1-quinoliniumyl)isophthalimide RL: SPN (Synthetic preparation); PREP (Preparation)

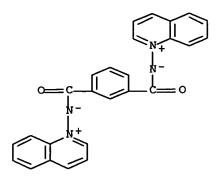
(preparation of, as photocrosslinking agent)

RN 153143-26-1 HCAPLUS

CN Quinolinium, 1,1'-[1,4-phenylenebis(carbonylimino)]bis-, bis(inner salt) (9CI) (CA INDEX NAME)

RN 153143-27-2 HCAPLUS

CN Quinolinium, 1,1'-[1,3-phenylenebis(carbonylimino)]bis-, bis(inner salt) (9CI) (CA INDEX NAME)



L39 ANSWER 12 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1991:143077 HCAPLUS Full-text

DOCUMENT NUMBER:

114:143077

TITLE:

2,6-Bis[N-(8-quinolyl)carbamoyl]pyridine as a highly

selective extractant for copper(II)

AUTHOR(S):

Hiratani, Kazuhisa; Taguchi, Kazuhiro

CORPORATE SOURCE:

Ind. Prod. Res. Inst., Tsukuba, 305, Japan

SOURCE:

Bulletin of the Chemical Society of Japan (1990),

63(11), 3331-3

CODEN: BCSJA8; ISSN: 0009-2673

DOCUMENT TYPE:

Journal

LANGUAGE:

English

OTHER SOURCE(S):

CASREACT 114:143077

GI

RHNOC N CONHR I

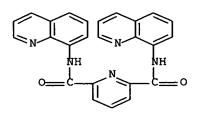
Title compds. I (R = 8-quinolinyl, 1-naphthyl, 2-methyl-8-quinolinyl, 2-pyridylmethyl) were prepared from 2,6-pyridinedicarbonyl chloride and amines for heavy metal ion-chelation. It was shown in solvent extraction that I (R = 8-quinolinyl) can extract only Cu(II) with excellent selectivity and efficiency from the aqueous phase (pH 6.2) containing Cu(II), Ni(II), Co(II), and Zn(II) into the chloroform phase.

IT 132734-56-6P 132734-82-8P 132734-83-9P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and selective copper extraction by)

RN 132734-56-6 HCAPLUS

CN 2,6-Pyridinedicarboxamide, N,N'-di-8-quinolinyl- (9CI) (CA INDEX NAME)



RN 132734-82-8 HCAPLUS

2,6-Pyridinedicarboxamide, N,N'-bis(2-methyl-8-quinolinyl)- (9CI) (CA CN INDEX NAME)

RN 132734-83-9 HCAPLUS

CN 1,3-Benzenedicarboxamide, N,N'-di-8-quinolinyl- (9CI) (CA INDEX NAME)

L39 ANSWER 13 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1990:48352 HCAPLUS Full-text

DOCUMENT NUMBER:

112:48352

TITLE:

Localization of a nonintercalative DNA binding antitumor drug in mitochondria: relationship to

multidrug resistance

AUTHOR(S):

Liley, David T. J.; Wiggins, Philippa M.; Baguley,

Bruce C.

CORPORATE SOURCE:

Sch. Med., Univ. Auckland, Auckland, N. Z.

SOURCE:

European Journal of Cancer & Clinical Oncology (1989),

25(9), 1287-93

CODEN: EJCODS; ISSN: 0277-5379

DOCUMENT TYPE:

Journal

LANGUAGE:

English

AB The bis-(n-butyl) quaternary salt of N,N'-bis-(6-quinolyl)terephthalamide (QBQ), a fluorescent antitumor compound in the phthalanilide series which is thought to bind to the minor groove of the DNA double helix, has been investigated with respect to its in vitro activity and subcellular localization. Cultured MCF-7 human breast carcinoma cells concentrated QBQ in mitochondria by a time-dependent process which was inhibited by the ionophore valinomycin, suggesting a possible mode of antitumor action of QBQ through mitochondrial poisoning. Growth of cultured P388 murine leukemia cells was inhibited 50% in the presence of 0.52 μM QBQ, and multidrugresistant P388 sublines developed for resistance to actinomycin D, vincristine, Adriamycin and the phthalanilide NSC 38280 were cross-resistant to the drug. Crossresistance was reduced in all lines by the presence of 11 μ M verapamil, suggesting that a transport resistance mechanism operates on QBQ. The actinomycin D-resistant P388 cell line was found to be cross-resistant to the aromatic cations rhodamine 123, which binds to proteins, and ethidium and pyronin Y, which bind intercalatively to DNA. Thus, mitochondrion-specific drugs with different macromol. binding properties all appear to be excluded by multidrug-resistant cells.

IT 14120-88-8

RL: BIOL (Biological study)

(cytotoxicity and mitochondrial localization of, multidrug resistance in relation to, in human and laboratory animal cells)

RN 14120-88-8 HCAPLUS

CN Quinolinium, 6,6'-[1,4-phenylenebis(carbonylimino)]bis[1-butyl-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 16722-51-3 CMF C7 H7 O3 S

CM 2

CRN 14106-77-5 CMF C34 H36 N4 O2

L39 ANSWER 14 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 1986:602110 HCAPLUS Full-text

DOCUMENT NUMBER: 105:202110

TITLE: Coordination polymers of N,N'-bis(8-hydroxy-5-

quinolinyl) terephthalamide

AUTHOR(S): Patel, Ravji D.

CORPORATE SOURCE: Chem. Dep., Sardar Patel Univ., Vallabh Vidyanagar,

388 120, India

SOURCE: Makromolekulare Chemie (1986), 187(8), 1871-5

CODEN: MACEAK; ISSN: 0025-116X

DOCUMENT TYPE: Journal LANGUAGE: English

AB [ML]n (M = Fe, Co, Ni, Cu, Zn; H2L = N,N'-bis(8-hydroxy-5-quinolinyl) terephthalamide) were prepared The complexes were characterized by elemental analyses, IR spectra, electronic reflectance spectra, magnetic

susceptibility measurements, and thermogravimetry. The complexes showed a polymeric nature with a octahedral stereochem. at the coordinated metal atom. The fungicidal screening of the coordination polymers showed them to be antifungal against Penicillium islandicum, Rizopus nigricans and Botrydiplodia theobromae.

IT 104840-24-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and antifungal activity of)

RN 104840-24-6 HCAPLUS

CN 1,4-Benzenedicarboxamide, N,N'-bis(8-hydroxy-5-quinolinyl)- (9CI) (CA INDEX NAME)

L39 ANSWER 15 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1986:594282 HCAPLUS Full-text

DOCUMENT NUMBER: 105:194282

TITLE: Sweetening hydrocarbon fractions in the absence of an

alkali compound

INVENTOR(S): Mimoun, Hubert; Bonnaudet, Serge; Saussine, Lucien;

Franck, Jean-pierre

PATENT ASSIGNEE(S): Institut Francais du Petrole, Fr.

SOURCE: Eur. Pat. Appl., 19 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.		DATE	APPLICATION NO.	DATE
	EP 181800	A1	19860521	EP 1985-402045	19851022
	EP 181800	B1	19880427		
	R: DE, GB, IT,	, NL			
	FR 2573087	A1	19860516	FR 1984-17228	19841109
	FR 2573087	B1	19870710		
PRIC	ORITY APPLN. INFO.:			FR 1984-17228 F	19841109

AB A hydrocarbon charge containing S compds. is sweetened by percolation through a layer of a catalyst based on ≥1 complex consisting of ≥1 chelate of ≥1 metal with ≥1 multidentate ligand with ≥1 amide group and with general formula ML2 or M(LH)2X2, in which M is a transition metal, X is an anion, and L is a bidentate ligand based on

10721,210

picolinic acid amide or a primary amine derivative, a tridentate ligand based on a bis(picolinic acid) imide or a NH3-substituted derivative, a tetradentate ligand based on a bis(picolinic acid) imide or a derivative substituted by compds. with ≥2 primary amine groups separated by ≥2 C atoms, a ligand based on a cyclic dipicolinic acid bisimide or an NH3 derivative, or a ligand based on an oxalic acid diamide, or phthalic acid diamide, or a derivative M may be Co, Ni, Fe, Cu, or Mn; the catalyst support may be C, SiO2, Al2O3, an aluminosilicate, a zeolite, or an ion exchanger. Thus, the complex Co (phepia H)2Cl2 was prepared from CoCl2 and N-phenyl-picolinamide (phepia H), dissolved in water, and percolated through activated C to impregnate; treatment of kerosine containing total S 700 and mercaptan S 140 ppm at 160-300° in air for 50 h decreased the mercaptan S concentration to 2 ppm.

IT 104583-94-0D, transition metal complexes

RL: USES (Uses)

(in sweetening of petroleum fractions)

RN 104583-94-0 HCAPLUS

CN 1,2-Benzenedicarboxamide, N,N'-di-5-quinolinyl- (9CI) (CA INDEX NAME)

L39 ANSWER 16 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1984:79557 HCAPLUS Full-text

DOCUMENT NUMBER: 100:79557

TITLE: Induction of petite mutants in yeast by

nonintercalative DNA-binding antitumor agents

AUTHOR(S): Ferguson, Lynnette R.; Baguley, Bruce C.

CORPORATE SOURCE: Med. Sch., Univ. Auckland, Auckland, N. Z.

SOURCE: European Journal of Cancer & Clinical Oncology (1983),

19(11), 1575-83

CODEN: EJCODS; ISSN: 0277-5379

DOCUMENT TYPE: Journal LANGUAGE: English

AB A series of 17 bis-charged nonintercalative DNA-binding antitumor agents and 7 related inactive compds. have been tested for the induction of respiratory deficient (petite) mutants in Saccharomyces cerevisiae D5. Many compds. were strong inducers of petite mutants at concns. which were not toxic to the growth of the yeast cells. Mutagenicity is only weakly correlated with in vitro inhibition of L1210 cell growth; however, mutagenicity, yeast toxicity and in vitro and in vivo antitumor activity are all correlated with selective binding to polydeoxy(adenylic-thymidylic) acid [26966-61-0] rather than polydeoxy(guanylic-cytidylic) acid [36786-90-0]. Thus, A-T-rich DNA may be a target for all the biol. effects measured in this study. Furthermore, the possibility that the target for antitumor action may be tumor cell mitochondrial DNA is supported by these results.

IT 14106-77-5

RL: BIOL (Biological study)

(petite mutants in Saccharomyces cerevisiae induction by, DNA binding and antitumor activity in relation to)

RN 14106-77-5 HCAPLUS

CN Quinolinium, 6,6'-[1,4-phenylenebis(carbonylimino)]bis[1-butyl- (9CI) (CAINDEX NAME)

$$\begin{array}{c} n-Bu \\ N+ \\ n-Bu \end{array}$$

L39 ANSWER 17 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1982:400302 HCAPLUS Full-text

DOCUMENT NUMBER: 97:302

TITLE: A comparison of the requirements for antitumor

activity and antibacteriophage lambda activity for a

series of nonintercalative DNA-binding agents

AUTHOR(S): Robertson, Iain G. C.; Baguley, Bruce C.

CORPORATE SOURCE: Dep. Cell Biol., Univ. Auckland, Auckland, N. Z.

SOURCE: European Journal of Cancer & Clinical Oncology (1982),

18(3), 271-9

CODEN: EJCODS; ISSN: 0277-5379

DOCUMENT TYPE: Journal LANGUAGE: English

As series of nonintercalative DNA-binding agents, comprising mainly bisquaternary ammonium heterocyclic compds., inhibit strongly the production of bacteriophage lambda following its induction in Escherichia coli. The inhibition is much greater than that found with a number of DNA intercalating agents, including 9-aminoacridine, ethidium, and Daunorubicin. The inhibition correlated with antitumor effect, as measured in a life extension assay with L1210 leukemia. Activity in both biol. systems demanded the presence of strongly charged groups and a rigid coplanar aromatic skeleton, these requirements being almost identical to those needed to displace ethidium efficiently from DNA in a simple assay system. Biol. activity may be associated with the ability of these agents to bind in the minor groove of the DNA double helix. Previous data on the antibacteriophage action of one of these agents suggests possible models for antitumor activity.

IT 14120-88-8

RL: BIOL (Biological study)

(bacteriophage $\boldsymbol{\lambda}$ and neoplasm inhibition by, structure in

relation to)

RN 14120-88-8 HCAPLUS

CN Quinolinium, 6,6'-[1,4-phenylenebis(carbonylimino)]bis[1-butyl-, salt with

4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 16722-51-3 CMF C7 H7 O3 S

CRN 14106-77-5 CMF C34 H36 N4 O2

L39 ANSWER 18 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1979:66509 HCAPLUS Full-text

DOCUMENT NUMBER: 90:66509

TITLE: Potential antitumor agents. 29. Quantitative

structure-activity relationships for the antileukemic

bisquaternary ammonium heterocycles

AUTHOR(S): Denny, William A.; Atwell, Graham J.; Baguley, Bruce

C.; Cain, Bruce F.

CORPORATE SOURCE: Exp. Chemother. Res. Lab., Pew Zealand Cancer Soc.,

Auckland, N. Z.

SOURCE: Journal of Medicinal Chemistry (1979), 22(2), 134-50

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal LANGUAGE: English

AB Quant. relations between physicochem. drug properties and antileukemic (L1210) efficacy were examined for a series of bisquaternary ammonium heterocycles employing multiple variable regression anal. The synthesis of these compds. is described. The drug dose necessary to provide a 40% increase in life span and the chemotherapeutic index were independent of toxicity. There was a parabolic relation between agent lipophilic-hydrophilic balance and the percentage increase in mean life span of leukemic animals at the LD10 dose. Relative levels of drug-DNA interaction were obtained by spectrofluorimetric quantitation of drug displacement of DNA-bound ethidium. Extensive quant. structure-activity relations are discussed.

IT 14120-88-8 14120-89-9 14120-90-2

14120-94-6 14170-93-5 14242-15-0

14357-93-8 18519-35-2 18519-37-4

18519-40-9 18519-41-0 18519-47-6

18519-49-8 18519-50-1 18519-65-8

18519-66-9 18519-67-0 18519-69-2

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(antileukemic activity of)

RN 14120-88-8 HCAPLUS

CN Quinolinium, 6,6'-[1,4-phenylenebis(carbonylimino)]bis[1-butyl-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 16722-51-3

CMF C7 H7 O3 S

CM 2

CRN 14106-77-5 CMF C34 H36 N4 O2

$$\begin{array}{c} n-Bu \\ N+ \\ N-Bu \end{array}$$

RN 14120-89-9 HCAPLUS

CN Quinolinium, 6,6'-[1,4-phenylenebis(carbonylimino)]bis[1-hexyl-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 50569-90-9 CMF C38 H44 N4 O2

CM 2

CRN 16722-51-3 CMF C7 H7 O3 S

RN 14120-90-2 HCAPLUS

CN Quinolinium, 6,6'-[1,4-phenylenebis(carbonylimino)]bis[1-(2-methoxyethyl)-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 16722-51-3 CMF C7 H7 O3 S

CM 2

CRN 14106-79-7 CMF C32 H32 N4 O4

RN 14120-94-6 HCAPLUS

CN Quinolinium, 6,6'-[2,5-pyridinediylbis(carbonylimino)]bis[1-butyl-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 16722-51-3 CMF C7 H7 O3 S

CM 2

CRN 14106-83-3 CMF C33 H35 N5 O2

RN 14170-93-5 HCAPLUS

CN Quinolinium, 6,6'-[(2-amino-1,4-phenylene)bis(carbonylimino)]bis[1-propyl-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 16722-51-3 CMF C7 H7 O3 S

CM 2

CRN 14106-85-5 CMF C32 H33 N5 O2

$$\begin{array}{c} & & & \\ & &$$

RN 14242-15-0 HCAPLUS

CN Quinolinium, 6,6'-[1,4-phenylenebis(carbonylimino)]bis[1-ethyl-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 16722-51-3 CMF C7 H7 O3 S

CM 2

CRN 14242-10-5 CMF C30 H28 N4 O2

RN 14357-93-8 HCAPLUS

CN Quinolinium, 6,6'-[1,4-phenylenebis(carbonylimino)]bis[1-methyl-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 16722-51-3 CMF C7 H7 O3 S

CM 2

CRN 14357-86-9 CMF C28 H24 N4 O2

RN 18519-35-2 HCAPLUS

CN Quinolinium, 6,6'-[1,4-phenylenebis(carbonylimino)]bis[1-propyl-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 23595-43-9 CMF C32 H32 N4 O2

$$\bigcap_{N+} \bigcap_{N+} \bigcap_{N+}$$

CRN 16722-51-3 CMF C7 H7 O3 S

RN 18519-37-4 HCAPLUS

CN Quinolinium, 6,6'-[1,4-phenylenebis(carbonylimino)]bis[1-pentyl-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 23552-56-9 CMF C36 H40 N4 O2

CM 2

CRN 16722-51-3 CMF C7 H7 O3 S

RN 18519-40-9 HCAPLUS

CN Quinolinium, 6,6'-[1,4-phenylenebis(carbonylimino)]bis[1-(2-ethoxyethyl)-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CRN 50569-65-8 CMF C34 H36 N4 O4

CM 2

CRN 16722-51-3 CMF C7 H7 O3 S

RN 18519-41-0 HCAPLUS

CN Quinolinium, 6,6'-[1,4-phenylenebis(carbonylimino)]bis[1-(2-butoxyethyl)-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 50570-07-5 CMF C38 H44 N4 O4

$$\begin{array}{c} \text{CH}_2-\text{CH}_2-\text{OBu-n} \\ \text{N+} \\ \text{N+$$

CM 2

CRN 16722-51-3 CMF C7 H7 O3 S

RN 18519-47-6 HCAPLUS

CN Quinolinium, 6,6'-[(2-amino-1,4-phenylene)bis(carbonylimino)]bis[1-ethyl-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 47792-83-6 CMF C30 H29 N5 O2

CM 2

CRN 16722-51-3 CMF C7 H7 O3 S

RN 18519-49-8 HCAPLUS

CN Quinolinium, 6,6'-[(2-amino-1,4-phenylene)bis(carbonylimino)]bis[1-butyl-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 47827-75-8 CMF C34 H37 N5 O2

$$\begin{array}{c} n-Bu \\ N+ \\ N+2 \end{array}$$

CM 2

CRN 16722-51-3 CMF C7 H7 O3 S

RN 18519-50-1 HCAPLUS

CN Quinolinium, 6,6'-[(2-amino-1,4-phenylene)bis(carbonylimino)]bis[1-pentyl-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 47845-75-0 CMF C36 H41 N5 O2

CM 2

CRN 16722-51-3 CMF C7 H7 O3 S

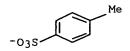
RN 18519-65-8 HCAPLUS

CN Quinolinium, 6,6'-[2,5-pyridinediylbis(carbonylimino)]bis[1-methyl-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 47749-41-7 CMF C27 H23 N5 O2

CRN 16722-51-3 CMF C7 H7 O3 S



RN 18519-66-9 HCAPLUS

CN Quinolinium, 6,6'-[2,5-pyridinediylbis(carbonylimino)]bis[1-ethyl-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 47776-45-4 CMF C29 H27 N5 O2

CM 2

CRN 16722-51-3 CMF C7 H7 O3 S

RN 18519-67-0 HCAPLUS

CN Quinolinium, 6,6'-[2,5-pyridinediylbis(carbonylimino)]bis[1-propyl-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 47801-67-2 CMF C31 H31 N5 O2

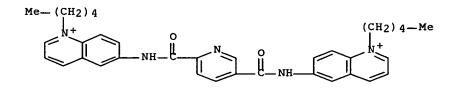
CRN 16722-51-3 CMF C7 H7 O3 S

RN18519-69-2 HCAPLUS

CN Quinolinium, 6,6'-[2,5-pyridinediylbis(carbonylimino)]bis[1-pentyl-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM1

CRN 47834-40-2 C35 H39 N5 O2 CMF



CM 2

CRN 16722-51-3 CMF C7 H7 O3 S

L39 ANSWER 19 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER:

DOCUMENT NUMBER:

1969:438824 HCAPLUS Full-text

71:38824

TITLE:

Quaternized bis-heterocyclic terephthalic acid

diamides

INVENTOR(S):

Plumpe, Hans; Bierling, Robert; Steinhoff, Dieter;

Haberkorn, Axel

PATENT ASSIGNEE(S):

Farbenfabriken Bayer A.-G.

SOURCE:

Brit., 7 pp.

DOCUMENT TYPE:

CODEN: BRXXAA

LANGUAGE:

Patent English

1

FAMILY ACC. NUM. COUNT:

33

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 1147295		19690402		
FR 1542276			FR	
FR 7220			FR	
PRIORITY APPLN. INFO.:			DE	19661103
			DE	19670724

GI For diagram(s), see printed CA Issue.

The title compds. exhibiting trypanocidal and cytostatic activity are prepared by a AΒ number of methods. A suspension of 50.8 g. 1,4-C6H4(COC1)2 in 250 ml. C5H5N was added portion-wise to 79.2 g. 6-aminoquinoline (I) in 250 ml. C5H5N at 10°. The mixture was stirred for 15 hrs. at room temperature and at 50° for 1 hr. to give 105 g. II (A = B = Co) (III) m. 350° . Heating 41.8 g. III in 50 ml. PhNO2 with 50.4 g. Me2SO4 at 120° for 4 hrs. gave 61.8 g. III bis(methosulfate) (IV), m. 350°. Refluxing a mixture of 8 g. 1,4-C6H4(NCO)2 and 14.4 g. I in 50 ml. C6H6 1 hr. gave 20.5 g. II (A = CONH, B = NHCO), m. 350°, which on quaternization yielded the bis (methosulfate) (V), m. 230° (decomposition). By similar methods were prepared N, N'-bis (6- quinaldinyl) terephthalic acid diamide, m. 345-50° (decomposition), bis-(methosulfate), m. 195° (decomposition); N,N'-bis(1-methyl-5benzimidazolyl) terephthalic acid diamide, m. >360°, bis(methosulfate), m. >360°; and the bis(ethosulfate) of III, m. 360°. Heating III and MeSO3H in PhNO2 gave III bis(methanesulfonate (VI), m. 348° (decomposition). Adding excess HCl to an aqueous solution of VI yielded III bis(methochloride), m. 315° (decomposition). Also prepared were N,N'-bis(6-quinolyl)-2-nitroterephthalic acid diamide, 292° $(\texttt{decomposition}), \; \texttt{bis} \, (\texttt{methosulfate}), \; \texttt{m.} \; 278° \; \; (\texttt{decomposition}); \; \texttt{N,N'-bis} \, (\texttt{6-quinolyl}) \, -2-1000 \, \texttt{methosulfate}), \; \texttt{m.} \; \texttt{100} \, \texttt{methosulfate}), \; \texttt{m.$ chloroterephthalic acid diamide, m. 274°, bis (methosulfate), m. 280° (decomposition); N,N'-bis(2-methyl-6-benzothiazolyl)terephthalic acid diamide, m. 285° (decomposition), bis(methosulfate, m. >350°; N,N'-bis(6quinolyl) furandicarboxylic acid diamide, m. >260° (decomposition), bismethosulfate, m. 353° (decomposition). Against Trypanosoma congolense in mice, IV was fully protective at doses of 250 mg./kg. when injected s.c. 24 hrs. after infection; V was similarly at a dose of 10 mg./kg. The corresponding effective doses of IV and V against T. brucei in mice were 5 and 10 mg./kg., resp. S.c. LD50 figures in mice were 1000 and 250 mg./kg., resp., for IV and V. The compds. were effective in prolonging survival time of mice with leukemia L 1210 infections.

IT 18519-42-1P 18520-62-2P 22726-88-1P 22726-90-5P 22726-96-1P 22726-98-3P 22726-99-4P 22727-01-1P 22727-02-2P 22727-03-3P 22727-04-4P 24725-00-6P 24769-91-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 18519-42-1 HCAPLUS

CN Terephthalamide, 2-nitro-N, N'-di-6-quinolyl- (8CI) (CA INDEX NAME)

RN 18520-62-2 HCAPLUS

CN Terephthalamide, N, N'-di-6-quinolyl- (8CI) (CA INDEX NAME)

RN 22726-88-1 HCAPLUS

CN Quinolinium, 6,6'-(terephthaloyldiimino)bis[1-methyl-, dimethanesulfonate (8CI) (CA INDEX NAME)

CM 1

CRN 16053-58-0 CMF C H3 O3 S

CM 2

CRN 14357-86-9 CMF C28 H24 N4 O2

RN 22726-90-5 HCAPLUS

CN Terephthalamide, 2-chloro-N, N'-di-6-quinolyl- (8CI) (CA INDEX NAME)

RN 22726-96-1 HCAPLUS

CN Quinolinium, 6,6'-(terephthaloyldiimino)bis[1-methyl-, bis(methyl sulfate) (8CI) (CA INDEX NAME)

CRN 21228-90-0 CMF C H3 O4 S

Me-0-503-

CM 2

CRN 14357-86-9 CMF C28 H24 N4 O2

RN 22726-98-3 HCAPLUS

CN Terephthalamide, N,N'-bis(2-methyl-6-quinolyl)- (8CI) (CA INDEX NAME)

RN 22726-99-4 HCAPLUS

CN Quinaldinium, 6,6'-(terephthaloyldiimino)bis[1-methyl-, bis(methyl sulfate) (8CI) (CA INDEX NAME)

CM 1

CRN 50568-01-9 CMF C30 H28 N4 O2

CRN 21228-90-0 CMF C H3 O4 S

Me-0-S03-

RN 22727-01-1 HCAPLUS

CN Quinolinium, 6,6'-(terephthaloyldiimino)bis[1-ethyl-, bis(methyl sulfate) (8CI) (CA INDEX NAME)

CM 1

CRN 21228-90-0 CMF C H3 O4 S

Me-0-503-

CM 2

CRN 14242-10-5 CMF C30 H28 N4 O2

RN 22727-02-2 HCAPLUS

CN Quinolinium, 6,6'-(terephthaloyldimino)bis[1-methyl-, dichloride (8CI) (CA INDEX NAME)

●2 c1-

RN 22727-03-3 HCAPLUS

CN Quinolinium, 6,6'-[(nitroterephthaloyl)diimino]bis[1-methyl-, bis(methyl sulfate) (8CI) (CA INDEX NAME)

CM 1

CRN 47793-44-2 CMF C28 H23 N5 O4

CM 2

CRN 21228-90-0 CMF C H3 O4 S

Me-0-503-

RN 22727-04-4 HCAPLUS

CN Quinolinium, 6,6'-[(chloroterephthaloyl)diimino]bis[1-methyl-, bis(methyl sulfate) (8CI) (CA INDEX NAME)

CM 1

CRN 47766-43-8

CMF C28 H23 C1 N4 O2

CRN 21228-90-0 CMF C H3 O4 S

Me-0-503-

RN 24725-00-6 HCAPLUS
CN 2,5-Furandicarboxamide, N,N'-di-6-quinolyl- (8CI) (CA INDEX NAME)

RN 24769-91-3 HCAPLUS

CN Quinolinium, 6,6'-[2,5-furandiylbis(carbonylimino)]bis[1-methyl-, bis(methyl sulfate) (8CI) (CA INDEX NAME)

CM 1

CRN 50567-60-7 CMF C26 H22 N4 O3

CM 2

CRN 21228-90-0 CMF C H3 O4 S

Me-0-503-

L39 ANSWER 20 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 1969:95108 HCAPLUS Full-text

DOCUMENT NUMBER: 70:95108

TITLE: Potential antitumor agents. X. Bisquaternary salts

AUTHOR(S): Cain, Bruce F.; Atwell, G. J.; Seelye, Ralph N.

CORPORATE SOURCE: Cornwall Geriatric Hosp., Auckland, N. Z.

SOURCE: Journal of Medicinal Chemistry (1969), 12(2), 199-206

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal LANGUAGE: English

AB The biol. activity of a variety of cationic agents against exptl. leukemias and trypanosomal species may be dependent on (a) lipophilic-hydrophilic balance of the agents, (b) charge separation, (c) sufficient contact binding, this requirement varying with the biol. test system involved, (d) a close over-all approach to planarity, and (e) capacity to fit a curved site of approx. 40 A. in diameter That migration of these materials may be transport mediated is discussed. It is shown that a site equivalent to the minor groove in a helical polynucleotide would match the structural requirements.

IT 14106-77-5 14242-10-5 14357-86-9 23552-56-9 23595-43-9 50569-90-9

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(biol. activity of)

RN 14106-77-5 HCAPLUS

CN Quinolinium, 6,6'-[1,4-phenylenebis(carbonylimino)]bis[1-butyl- (9CI) (CA INDEX NAME)

$$\begin{array}{c} n-Bu \\ N+ \\ N-Bu \end{array}$$

RN 14242-10-5 HCAPLUS

CN Quinolinium, 6,6'-(terephthaloyldiimino)bis[1-ethyl- (8CI) (CA INDEX NAME)

RN 14357-86-9 HCAPLUS

CN Quinolinium, 6,6'-(terephthaloyldiimino)bis[1-methyl- (8CI) (CA INDEX

NAME)

RN 23552-56-9 HCAPLUS

CN Quinolinium, 6,6'-(terephthaloyldiimino)bis[1-pentyl- (8CI) (CA INDEX NAME)

RN 23595-43-9 HCAPLUS

CN Quinolinium, 6,6'-(terephthaloyldiimino)bis[1-propyl- (8CI) (CA INDEX NAME)

RN 50569-90-9 HCAPLUS

CN Quinolinium, 6,6'-[1,4-phenylenebis(carbonylimino)]bis[1-hexyl- (9CI) (CA INDEX NAME)

L39 ANSWER 21 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 1968:486796 HCAPLUS Full-text

10721,210

DOCUMENT NUMBER: 69:86796

TITLE: Potential antitumor agents. IX. Bisquaternary salts

AUTHOR(S): Cain, B. F.; Atwell, G. J.; Seelye, R. N. CORPORATE SOURCE: Cornwall Geriatric Hosp., Auckland, N. Z.

SOURCE: Journal of Medicinal Chemistry (1968), 11(5), 963-6

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal LANGUAGE: English

GI For diagram(s), see printed CA Issue.

AB The postulate that a close approach to overall planarity in bisquaternary ammonium heterocycles is essential for maximum activity when tested against the L1210 system was further investigated. The preparation of L1210 active quaternary salts containing a biphenyl system [e.g. I bis(p-toluenesulfonate)] suggests that complete planarity in this type of mol. is not an essential requirement.

IT 19585-75-2P 19585-76-3P 19585-77-4P

19585-78-5P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

RN 19585-75-2 HCAPLUS

CN Fluorene-2,7-dicarboxamide, N,N'-di-6-quinolyl- (8CI) (CA INDEX NAME)

RN 19585-76-3 HCAPLUS

●2 1-

RN 19585-77-4 HCAPLUS

CN Quinolinium, 6,6'-[fluoren-2,7-ylenebis(carbonylimino)]bis[1-propyl-, diiodide (8CI) (CA INDEX NAME)

●2 1-

RN 19585-78-5 HCAPLUS

CN Quinolinium, 6,6'-[fluoren-2,7-ylenebis(carbonylimino)]bis[1-butyl-,
diiodide (8CI) (CA INDEX NAME)

●2 I-

L39 ANSWER 22 OF 22 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1968:114394 HCAPLUS Full-text

DOCUMENT NUMBER: 68:114394

TITLE: Potential antitumor agents. V. Bisquaternary salts

AUTHOR(S): Atwell, G. J.; Cain, Bruce F.

CORPORATE SOURCE: Cornwall Geriatric Hosp., Auckland, N. Z.

SOURCE: Journal of Medicinal Chemistry (1967), 10(4), 706-13

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal LANGUAGE: English

GI For diagram(s), see printed CA Issue.

AB A series of bis quaternary ammonium heterocycles, e.g. I (R = R' = H, alkyl, or alkoxyalkyl), were prepared and evaluated against the L1210 leukemia system.

IT 14120-88-8P 14120-89-9P 14120-90-2P

14120-94-6P 14120-95-7P 14120-96-8P

14170-93-5P 14242-15-0P 14357-93-8P

18519-35-2P 18519-37-4P 18519-40-9P

18519-41-0P 18519-42-1P 18519-43-2P

18519-45-4P 18519-46-5P 18519-47-6P

18519-49-8P 18519-50-1P 18519-64-7P

18519-65-8P 18519-66-9P 18519-67-0P 18519-69-2P 18519-70-5P 18519-71-6P

18519-73-8P 18519-74-9P 18519-75-0P

18519-76-1P 18519-77-2P 18519-78-3P

18519-79-4P 18519-80-7P 18520-30-4P

18520-31-5P 18520-32-6P 18520-33-7P

18520-62-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 14120-88-8 HCAPLUS

CN Quinolinium, 6,6'-[1,4-phenylenebis(carbonylimino)]bis[1-butyl-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 16722-51-3 CMF C7 H7 O3 S

CM 2

CRN 14106-77-5 CMF C34 H36 N4 O2

RN 14120-89-9 HCAPLUS

CN Quinolinium, 6,6'-[1,4-phenylenebis(carbonylimino)]bis[1-hexyl-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 50569-90-9 CMF C38 H44 N4 O2

CM 2

CRN 16722-51-3 CMF C7 H7 O3 S

RN 14120-90-2 HCAPLUS

CN Quinolinium, 6,6'-[1,4-phenylenebis(carbonylimino)]bis[1-(2-methoxyethyl)-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 16722-51-3 CMF C7 H7 O3 S

CM 2

CRN 14106-79-7 CMF C32 H32 N4 O4

RN 14120-94-6 HCAPLUS

CN Quinolinium, 6,6'-[2,5-pyridinediylbis(carbonylimino)]bis[1-butyl-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 16722-51-3 CMF C7 H7 O3 S

CM 2

CRN 14106-83-3 CMF C33 H35 N5 O2

RN 14120-95-7 HCAPLUS

CN Quinolinium, 6,6'-[(2-nitro-1,4-phenylene)bis(carbonylimino)]bis[1-propyl-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 16722-51-3 CMF C7 H7 O3 S

CM 2

CRN 14106-84-4 CMF C32 H31 N5 O4

$$\begin{array}{c} & & & \\ & &$$

RN 14120-96-8 HCAPLUS

CN Quinolinium, 5,5'-[1,4-phenylenebis(carbonylimino)]bis[1-butyl-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 50569-42-1 CMF C34 H36 N4 O2

CRN 16722-51-3 CMF C7 H7 O3 S

RN 14170-93-5 HCAPLUS

CN Quinolinium, 6,6'-[(2-amino-1,4-phenylene)bis(carbonylimino)]bis[1-propyl-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 16722-51-3 CMF C7 H7 O3 S

CM 2

CRN 14106-85-5 CMF C32 H33 N5 O2

RN 14242-15-0 HCAPLUS

CN Quinolinium, 6,6'-[1,4-phenylenebis(carbonylimino)]bis[1-ethyl-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 16722-51-3 CMF C7 H7 O3 S

CM 2

CRN 14242-10-5 CMF C30 H28 N4 O2

RN 14357-93-8 HCAPLUS

CN Quinolinium, 6,6'-[1,4-phenylenebis(carbonylimino)]bis[1-methyl-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 16722-51-3 CMF C7 H7 O3 S

CRN 14357-86-9 CMF C28 H24 N4 O2

RN 18519-35-2 HCAPLUS

CN Quinolinium, 6,6'-[1,4-phenylenebis(carbonylimino)]bis[1-propyl-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 23595-43-9 CMF C32 H32 N4 O2

$$\begin{array}{c} n-Pr \\ N+ \\ N-Pr \end{array}$$

CM 2

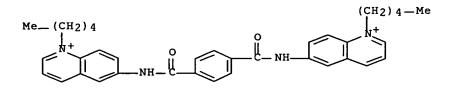
CRN 16722-51-3 CMF C7 H7 O3 S

RN 18519-37-4 HCAPLUS

CN Quinolinium, 6,6'-[1,4-phenylenebis(carbonylimino)]bis[1-pentyl-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 23552-56-9 CMF C36 H40 N4 O2



CM 2

CRN 16722-51-3 CMF C7 H7 O3 S

RN 18519-40-9 HCAPLUS

CN Quinolinium, 6,6'-[1,4-phenylenebis(carbonylimino)]bis[1-(2-ethoxyethyl)-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 50569-65-8 CMF C34 H36 N4 O4

CM 2

CRN 16722-51-3 CMF C7 H7 O3 S

RN 18519-41-0 HCAPLUS

CN Quinolinium, 6,6'-[1,4-phenylenebis(carbonylimino)]bis[1-(2-butoxyethyl)-,

10721,210

salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 50570-07-5 CMF C38 H44 N4 O4

CM 2

CRN 16722-51-3 CMF C7 H7 O3 S

RN 18519-42-1 HCAPLUS

CN Terephthalamide, 2-nitro-N, N'-di-6-quinolyl- (8CI) (CA INDEX NAME)

18519-43-2 HCAPLUS

Quinolinium, 6,6'-[(nitroterephthaloyl)diimino]bis[1-ethyl-,
di-p-toluenesulfonate (8CI) (CA INDEX NAME)

CM 1

RN

CRN 47812-61-3

CMF C30 H27 N5 O4

CRN 16722-51-3 CMF C7 H7 O3 S

RN 18519-45-4 HCAPLUS

CN Quinolinium, 6,6'-[(nitroterephthaloyl)diimino]bis[1-butyl-, di-p-toluenesulfonate (8CI) (CA INDEX NAME)

CM 1

CRN 47845-76-1 CMF C34 H35 N5 O4

$$\begin{array}{c} n-Bu \\ 0 \\ N+ \\ N-Bu \end{array}$$

CM 2

CRN 16722-51-3 CMF C7 H7 O3 S

RN 18519-46-5 HCAPLUS

CN Quinolinium, 6,6'-[(nitroterephthaloyl)diimino]bis[1-pentyl-, di-p-toluenesulfonate (8CI) (CA INDEX NAME)

CM 1

CRN 47858-54-8 CMF C36 H39 N5 O4

CM 2

CRN 16722-51-3 CMF C7 H7 O3 S

RN 18519-47-6 HCAPLUS

CN Quinolinium, 6,6'-[(2-amino-1,4-phenylene)bis(carbonylimino)]bis[1-ethyl-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 47792-83-6 CMF C30 H29 N5 O2

CM 2

CRN 16722-51-3 CMF C7 H7 O3 S

RN 18519-49-8 HCAPLUS

CN Quinolinium, 6,6'-[(2-amino-1,4-phenylene)bis(carbonylimino)]bis[1-butyl-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 47827-75-8 CMF C34 H37 N5 O2

CM 2

CRN 16722-51-3 CMF C7 H7 O3 S

RN 18519-50-1 HCAPLUS

CN Quinolinium, 6,6'-[(2-amino-1,4-phenylene)bis(carbonylimino)]bis[1-pentyl-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 47845-75-0 CMF C36 H41 N5 O2

CRN 16722-51-3 CMF C7 H7 O3 S

RN 18519-64-7 HCAPLUS

CN 2,5-Pyridinedicarboxamide, N,N'-di-6-quinolyl- (8CI) (CA INDEX NAME)

RN 18519-65-8 HCAPLUS

CN Quinolinium, 6,6'-[2,5-pyridinediylbis(carbonylimino)]bis[1-methyl-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 47749-41-7 CMF C27 H23 N5 O2

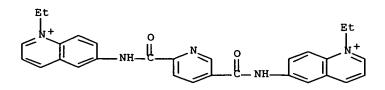
CM 2

CRN 16722-51-3 CMF C7 H7 O3 S

RN 18519-66-9 HCAPLUS

CN Quinolinium, 6,6'-[2,5-pyridinediylbis(carbonylimino)]bis[1-ethyl-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CRN 47776-45-4 CMF C29 H27 N5 O2



CM 2

CRN 16722-51-3 CMF C7 H7 O3 S

RN 18519-67-0 HCAPLUS

CN Quinolinium, 6,6'-[2,5-pyridinediylbis(carbonylimino)]bis[1-propyl-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 47801-67-2 CMF C31 H31 N5 O2

CM 2

CRN 16722-51-3 CMF C7 H7 O3 S

RN 18519-69-2 HCAPLUS

CN Quinolinium, 6,6'-[2,5-pyridinediylbis(carbonylimino)]bis[1-pentyl-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 47834-40-2 CMF C35 H39 N5 O2

CM 2

CRN 16722-51-3 CMF C7 H7 O3 S

RN 18519-70-5 HCAPLUS

CN Terephthalamide, N,N'-di-5-quinolyl- (8CI) (CA INDEX NAME)

RN 18519-71-6 HCAPLUS

CN Quinolinium, 5,5'-(terephthaloyldiimino)bis[1-ethyl-, di-p-toluenesulfonate (8CI) (CA INDEX NAME)

CM 1

CRN 50568-74-6 CMF C30 H28 N4 O2

CRN 16722-51-3 CMF C7 H7 O3 S

RN 18519-73-8 HCAPLUS

CN Terephthalamide, N,N'-di-7-quinolyl- (8CI) (CA INDEX NAME)

RN 18519-74-9 HCAPLUS

CN Quinolinium, 7,7'-(terephthaloyldiimino)bis[1-ethyl-, di-p-toluenesulfonate (8CI) (CA INDEX NAME)

CM 1

CRN 50568-77-9 CMF C30 H28 N4 O2

CRN 16722-51-3 CMF C7 H7 O3 S

RN 18519-75-0 HCAPLUS

CN Quinolinium, 7,7'-(terephthaloyldiimino)bis[1-butyl-, di-p-toluenesulfonate (8CI) (CA INDEX NAME)

CM 1

CRN 50569-47-6 CMF C34 H36 N4 O2

$$\begin{array}{c} n-Bu \\ \\ N+ \\ \end{array}$$

CM 2

CRN 16722-51-3 CMF C7 H7 O3 S

RN 18519-76-1 HCAPLUS

CN Isophthalamide, N,N'-di-5-quinolyl- (8CI) (CA INDEX NAME)

RN 18519-77-2 HCAPLUS

CN Quinolinium, 5,5'-(isophthaloyldiimino)bis[1-ethyl-, di-p-toluenesulfonate (8CI) (CA INDEX NAME)

CM 1

CRN 50568-73-5 CMF C30 H28 N4 O2

CM 2

CRN 16722-51-3 CMF C7 H7 O3 S

RN 18519-78-3 HCAPLUS

CN Quinolinium, 5,5'-(isophthaloyldimino)bis[1-butyl-, di-p-toluenesulfonate (8CI) (CA INDEX NAME)

CM 1

CRN 16722-51-3

CMF C7 H7 O3 S

CM 2

CRN 14106-87-7 CMF C34 H36 N4 O2

RN 18519-79-4 HCAPLUS

CN 1,3-Benzenedicarboxamide, N,N'-di-6-quinolinyl- (9CI) (CA INDEX NAME)

RN 18519-80-7 HCAPLUS

CN Quinolinium, 6,6'-(isophthaloyldiimino)bis[1-ethyl-, di-p-toluenesulfonate (8CI) (CA INDEX NAME)

CM 1

CRN 50568-78-0 CMF C30 H28 N4 O2

CRN 16722-51-3 CMF C7 H7 O3 S

RN 18520-30-4 HCAPLUS

CN Quinolinium, 6,6'-(isophthaloyldiimino)bis[1-butyl-, di-p-toluenesulfonate (8CI) (CA INDEX NAME)

CM 1

CRN 50569-49-8 CMF C34 H36 N4 O2

$$\begin{array}{c|c} & & & \\ & & \\ & & \\ N \\ & \\ N \\ & \\ \end{array}$$

CM 2

CRN 16722-51-3 CMF C7 H7 O3 S

RN 18520-31-5 HCAPLUS

CN Isophthalamide, N,N'-di-7-quinolyl- (8CI) (CA INDEX NAME)

RN 18520-32-6 HCAPLUS

CN Quinolinium, 7,7'-(isophthaloyldiimino)bis[1-ethyl-, di-p-toluenesulfonate (8CI) (CA INDEX NAME)

CM 1

CRN 50568-76-8 CMF C30 H28 N4 O2

CM 2

CRN 16722-51-3 CMF C7 H7 O3 S

RN 18520-33-7 HCAPLUS

CN Quinolinium, 7,7'-(isophthaloyldiimino)bis[1-butyl-, di-p-toluenesulfonate (8CI) (CA INDEX NAME)

CM 1

CRN 50569-46-5 CMF C34 H36 N4 O2

CM 2

CRN 16722-51-3

CMF C7 H7 O3 S

RN 18520-62-2 HCAPLUS

CN Terephthalamide, N, N'-di-6-quinolyl- (8CI) (CA INDEX NAME)

=> _

=> d stat que nos

L27 STR

L29 1324 SEA FILE=REGISTRY SSS FUL L27

L36 STR

L37 163 SEA FILE=REGISTRY SUB=L29 SSS FUL L36 L38 24 SEA FILE=HCAPLUS ABB=ON PLU=ON L37

L39 22 SEA FILE=HCAPLUS ABB=ON PLU=ON L38 NOT BOUCHARD?/AU

L40 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L38 NOT L39

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=> d ibib abs hitstr 140 1-2

L40 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 2004:650985 HCAPLUS Full-text

DOCUMENT NUMBER: 141:185084

TITLE: G-quadruplex-binding quaternary nitrogen-containing

heterocyclic compounds, their preparation, and their

use as antitumor agents

INVENTOR(S): Hittinger, Augustin; Caulfield, Thomas; Maillet,

Patrick; Bouchard, Herve; Mandine, Eliane; Belmokhtar,

Chafke; Mergny, Jean Louis; Guittat, Lionel; Riou,

Jean Francois; Gomez, Dennis

PATENT ASSIGNEE(S): Aventis Pharma S. A., Fr.; Centre National de la

Recherche Scientifique CNRS; Museum National

d'Histoire Naturelle; Institut Curie; Commissariat a l'Energie Atomique; Universite de Reims Champagne

Ardenne

SOURCE: Fr. Demande, 57 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA	PATENT NO.				KIND		DATE		4	APPLICATION NO.					-			
	FR 2850970 WO 2004072027								FR 2	003-	1478	20030207						
					A2 20040826 .A3 20040923			,	WO Z	004-	r KZ O	20040205						
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		•	•	•	•	•	LU,	•	•	•	•	•	•	•	•	•	•	
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							SI,											
		GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	
		GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG									
PRIORIT		FR 2003-1478								A 20030207								
OTHER S	MARPAT 141:185084																	
GI																		

AB The invention provides G-quadruplex-binding quaternary nitrogen-containing heterocyclic compds. for use as antitumor agents in humans. Preparation of e.g. 2,6-pyridine dicarboxylic acid bis[(1-methylquinolin-6-yl)amide] diiodide (I) is described. The compds of the invention have telomerase-inhibitory activity.

TT 737763-27-8P 737763-28-9P 737763-29-0P 737763-30-3P 737763-31-4P 737763-32-5P

737763-33-6P 737763-34-7P 737763-35-8P

737763-36-9P 737763-37-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(G-quadruplex-binding quaternary nitrogen-containing heterocyclic compound preparation and use as antitumor agents)

RN 737763-27-8 HCAPLUS

CN Quinolinium, 6,6'-[2,6-pyridinediylbis(carbonylimino)]bis[1-methyl-, diiodide (9CI) (CA INDEX NAME)

●2 I-

RN 737763-28-9 HCAPLUS

CN Quinolinium, 4-(dimethylamino)-1-methyl-6-[[[6-[[(1-methylquinolinium-6-yl)amino]carbonyl]-2-pyridinyl]carbonyl]amino]-, diiodide (9CI) (CA INDEX NAME)

●2 I-

2 I-

●2 I-

RN 737763-31-4 HCAPLUS

CN Quinolinium, 6,6'-[2,6-pyridinediylbis(carbonylimino)]bis[1,2-dimethyl-, diiodide (9CI) (CA INDEX NAME)

●2 I-

RN 737763-32-5 HCAPLUS

CN Quinolinium, 6-[[[6-[[(1,4-dihydro-4-imino-2-methyl-6-quinolinyl)amino]carbonyl]-2-pyridinyl]carbonyl]amino]-1-methyl-, iodide (9CI) (CA INDEX NAME)

• I-

RN 737763-33-6 HCAPLUS

CN Quinolinium, 6,6'-[1,3-phenylenebis(carbonylimino)]bis[1,2-dimethyl-, diodide (9CI) (CA INDEX NAME)

●2 I-

RN 737763-34-7 HCAPLUS

CN Quinolinium, 6,6'-[2,4-pyridinediylbis(carbonylimino)]bis[1-methyl-, diiodide (9CI) (CA INDEX NAME)

●2 I-

RN 737763-35-8 HCAPLUS

CN Quinolinium, 1-methyl-3-[[[6-[[(1-methylquinolinium-6-yl)amino]carbonyl]-2-pyridinyl]carbonyl]amino]-, diiodide (9CI) (CA INDEX NAME)

●2 I⁻

RN 737763-36-9 HCAPLUS

CN Quinolinium, 1-methyl-5-[[[6-[[(1-methylquinolinium-6-yl)amino]carbonyl]-2-pyridinyl]carbonyl]amino]-, diiodide (9CI) (CA INDEX NAME)

●2 T-

RN 737763-37-0 HCAPLUS

CN Quinolinium, 3,3'-[2,6-pyridinediylbis(carbonylimino)]bis[1-methyl-, diiodide (9CI) (CA INDEX NAME)

●2 I-

IT 18519-79-4P 737763-41-6P 737763-42-7P

737763-43-8P 737763-44-9P 737763-47-2P

737763-48-3P 737763-49-4P 737763-51-8P

737763-52-9P 737763-53-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(G-quadruplex-binding quaternary nitrogen-containing heterocyclic compound preparation and use as antitumor agents)

RN 18519-79-4 HCAPLUS

CN 1,3-Benzenedicarboxamide, N,N'-di-6-quinolinyl- (9CI) (CA INDEX NAME)

RN 737763-41-6 HCAPLUS

CN 2,6-Pyridinedicarboxamide, N-[4-(dimethylamino)-2-methyl-6-quinolinyl]-N'-6-quinolinyl- (9CI) (CA INDEX NAME)

RN 737763-42-7 HCAPLUS

CN 2,6-Pyridinedicarboxamide, N,N'-di-6-quinolinyl- (9CI) (CA INDEX NAME)

RN 737763-43-8 HCAPLUS

CN 2,6-Pyrazinedicarboxamide, N,N'-di-6-quinolinyl- (9CI) (CA INDEX NAME)

RN 737763-44-9 HCAPLUS

CN 2,6-Pyridinedicarboxamide, N,N'-bis(2-methyl-6-quinolinyl)- (9CI) (CA INDEX NAME)

RN 737763-47-2 HCAPLUS

CN 2,6-Pyridinedicarboxamide, N-(4-amino-2-methyl-6-quinolinyl)-N'-6-quinolinyl- (9CI) (CA INDEX NAME)

RN 737763-48-3 HCAPLUS

CN 1,3-Benzenedicarboxamide, N,N'-bis(2-methyl-6-quinolinyl)- (9CI) (CA INDEX NAME)

RN 737763-49-4 HCAPLUS

CN 2,4-Pyridinedicarboxamide, N,N'-di-6-quinolinyl- (9CI) (CA INDEX NAME)

RN 737763-51-8 HCAPLUS

CN 2,6-Pyridinedicarboxamide, N-3-quinolinyl-N'-6-quinolinyl- (9CI) (CA INDEX NAME)

RN 737763-52-9 HCAPLUS

CN 2,6-Pyridinedicarboxamide, N-5-quinolinyl-N'-6-quinolinyl- (9CI) (CA INDEX NAME)

737763-53-0 HCAPLUS RN

2,6-Pyridinedicarboxamide, N,N'-di-3-quinolinyl- (9CI) (CA INDEX NAME) CN

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 4 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L40 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2002:927425 HCAPLUS Full-text

DOCUMENT NUMBER:

138:24646

TITLE:

Heterocyclic diamides and related compounds as

telomerase inhibitors

INVENTOR(S):

Bouchard, Herve; Hittinger, Augustin

PATENT ASSIGNEE(S):

Aventis Pharma S.A., Fr.

SOURCE:

PCT Int. Appl., 65 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

French ·

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PAT	PATENT NO.						KIND DATE				APPLICATION NO.						DATE			
WO	2002096903				A2 20021205			1	70 2	002-	FR17	20020527								
WO	2002096903				A 3		20030417													
	W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,			
		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,			
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KP,	KR,	ΚZ,	LC,	LK,	LR,			
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NO,	ΝZ,	OM,	PH,			
		PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TN,	TR,	TT,	TZ,			
		UA,	UG,	US,	UZ,	VN,	YU,	ZA,	ZM,	ZW										
	RW:	GH,	GM,	ΚE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	BY,			
		KG,	ΚZ,	MD,	RU,	TJ,	TM,	AT,	BE,	CH,	CY,	DE,	DK,	ES,	FI,	FR,	GB,			
		GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,			
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FR	FR 2825090			A1 20021129					FR 2	001-	6909	20010528								
FR	2825090			B1 20030801																
EP	1401833			A2 20040331				EP 2	002-	7408	20020527									
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,			
		IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR									
JP	2004	5340	46		Т2		2004	1111		JP 2	003-	5000	20020527							
US	US 2004138257					A1 20040715				US 2	003-	7212	20031125							
RIORIT	ORITY APPLN. INFO.:							FR 2001-6909					A 20010528							
										FR 2	002-	1256		7	A 20	0020	204			
									1	WO 2	002-	FR17	67	7	w 2	0020	527			
HER SO	HER SOURCE(S):			MAR	PAT	138:	2464	6												

GI

AB Heterocyclic diamides and related compds. were prepared for use as telomerase inhibitors. Thus, 2,5-thiophenedicarboxylic acid was treated with 6-amino-4-dimethylamino-2-methylquinoline to give the diamide I which had a fluorescence Tm of 10.5 at 1 mM and an IC50 for inhibition of telomerase of 0.9 μ M.

IT 477219-39-9P 477219-40-2P 477219-41-3P 477219-44-6P 477219-45-7P 477219-55-9P 477219-57-1P 477219-58-2P 477219-61-7P 477219-62-8P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(heterocyclic diamides and related compds. as telomerase inhibitors) 477219-39-9 HCAPLUS

CN 2,5-Thiophenedicarboxamide, N,N'-bis(4-methoxy-2-methyl-6-quinolinyl)-(9CI) (CA INDEX NAME)

RN 477219-40-2 HCAPLUS

RN

CN 2,5-Thiophenedicarboxamide, N,N'-bis[4-(dimethylamino)-2-methyl-6-quinolinyl]- (9CI) (CA INDEX NAME)

RN 477219-41-3 HCAPLUS

CN 2,5-Thiophenedicarboxamide, N,N'-bis(4-amino-2-methyl-6-quinolinyl)- (9CI) (CA INDEX NAME)

RN 477219-44-6 HCAPLUS

CN 1,3-Benzenedicarboxamide, N,N'-bis(4-amino-2-methyl-6-quinolinyl)- (9CI) (CA INDEX NAME)

RN 477219-45-7 HCAPLUS

CN 1,4-Benzenedicarboxamide, N,N'-bis[4-(dimethylamino)-2-methyl-6-quinolinyl]- (9CI) (CA INDEX NAME)

RN 477219-55-9 HCAPLUS

CN 2,5-Pyridinedicarboxamide, N,N'-bis(4-amino-2-methyl-6-quinolinyl)-, hydrochloride (9CI) (CA INDEX NAME)

$$\stackrel{\text{Me}}{\underset{\text{NH}_2}{\bigvee}} \stackrel{\text{NH}}{\underset{\text{NH}_2}{\bigvee}} \stackrel{\text{O}}{\underset{\text{NH}_2}{\bigvee}} \stackrel{\text{N}}{\underset{\text{NH}_2}{\bigvee}} \stackrel{\text{Me}}{\underset{\text{NH}_2}{\bigvee}}$$

x HCl

RN 477219-57-1 HCAPLUS

CN 2,5-Pyridinedicarboxamide, N,N'-bis[4-(dimethylamino)-2-methyl-6-quinolinyl]- (9CI) (CA INDEX NAME)

RN 477219-58-2 HCAPLUS

CN 2,4-Pyridinedicarboxamide, N,N'-bis[4-(dimethylamino)-2-methyl-6-quinolinyl]- (9CI) (CA INDEX NAME)

RN 477219-61-7 HCAPLUS

CN 2,6-Pyridinedicarboxamide, N,N'-bis(4-amino-2-methyl-6-quinolinyl)-, hydrochloride (9CI) (CA INDEX NAME)

●x HCl

RN 477219-62-8 HCAPLUS

CN 2,6-Pyridinedicarboxamide, N,N'-bis[4-(dimethylamino)-2-methyl-6-quinolinyl]-, hydrochloride (9CI) (CA INDEX NAME)

●x HCl

IT 477219-42-4P 477219-43-5P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(heterocyclic diamides and related compds. as telomerase inhibitors)

RN 477219-42-4 HCAPLUS

CN 3,5-Pyridinedicarboxamide, N,N'-bis(4-amino-2-methyl-6-quinolinyl)- (9CI) (CA INDEX NAME)

RN 477219-43-5 HCAPLUS

CN 1,3-Benzenedicarboxamide, N,N'-bis[4-(dimethylamino)-2-methyl-6quinolinyl]- (9CI) (CA INDEX NAME)

 \Rightarrow > select hit rn 139 1-22; select hit rn 140 1-2 E1 THROUGH E74 ASSIGNED

E75 THROUGH E108 ASSIGNED

=> fil reg FILE 'REGISTRY' ENTERED AT 15:31:40 ON 29 JAN 2005 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2005 American Chemical Society (ACS)

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STRUCTURE FILE UPDATES: 27 JAN 2005 HIGHEST RN 821767-00-4 DICTIONARY FILE UPDATES: 27 JAN 2005 HIGHEST RN 821767-00-4

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

=> => d his 141-

(FILE 'HCAPLUS' ENTERED AT 15:29:05 ON 29 JAN 2005) SELECT HIT RN L39 1-22 SELECT HIT RN L40 1-2 FILE 'REGISTRY' ENTERED AT 15:31:40 ON 29 JAN 2005

L41 107 S E1-E108

L42 56 S L37 NOT L41

=> d ide can 142 1-56

L42 ANSWER 1 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 802860-54-4 REGISTRY

CN Quinolinium, 6,6'-[fluoren-2,7-ylenebis(carbonylimino)]bis[1-ethyl- (8CI) (CA INDEX NAME)

FS 3D CONCORD

MF C37 H32 N4 O2

CI COM

SR CA

L42 ANSWER 2 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 801176-16-9 REGISTRY

CN Quinolinium, 6,6'-[fluoren-2,7-ylenebis(carbonylimino)]bis[1-propyl- (8CI) (CA INDEX NAME)

FS 3D CONCORD

MF C39 H36 N4 O2

CI COM

SR CA

L42 ANSWER 3 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 795259-57-3 REGISTRY

CN Quinolinium, 1-methyl-5-[[[6-[[(1-methylquinolinium-6-yl)amino]carbonyl]-2-pyridinyl]carbonyl]amino]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C27 H23 N5 O2

CI COM

SR CA

L42 ANSWER 4 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 794458-55-2 REGISTRY

CN Quinolinium, 1-methyl-3-[[[6-[[(1-methylquinolinium-6-yl)amino]carbonyl]-2-pyridinyl]carbonyl]amino]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C27 H23 N5 O2

CI COM

SR CA

L42 ANSWER 5 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 794458-54-1 REGISTRY

CN Quinolinium, 6,6'-[2,4-pyridinediylbis(carbonylimino)]bis[1-methyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C27 H23 N5 O2

CI COM

SR CA

L42 ANSWER 6 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 794458-53-0 REGISTRY

CN Quinolinium, 6,6'-[1,3-phenylenebis(carbonylimino)]bis[1,2-dimethyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD MF C30 H28 N4 O2

CI COM

SR CA

L42 ANSWER 7 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 794458-52-9 REGISTRY

CN Quinolinium, 6-[[[6-[[(1,4-dihydro-4-imino-2-methyl-6-quinolinyl)amino]carbonyl]-2-pyridinyl]carbonyl]amino]-1-methyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C27 H23 N6 O2

CI COM SR CA

L42 ANSWER 8 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 794458-51-8 REGISTRY

CN Quinolinium, 6,6'-[2,6-pyridinediylbis(carbonylimino)]bis[1,2-dimethyl-(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C29 H27 N5 O2

CI COM

SR CA

10721,210

L42 ANSWER 9 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 794458-50-7 REGISTRY

CN Quinolinium, 6,6'-[1,3-phenylenebis(carbonylimino)]bis[1-methyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C28 H24 N4 O2

CI COM

SR CA

L42 ANSWER 10 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 794458-49-4 REGISTRY

CN Quinolinium, 6,6'-[2,6-pyrazinediylbis(carbonylimino)]bis[1-methyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C26 H22 N6 O2

CI COM

SR CA

L42 ANSWER 11 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 794458-48-3 REGISTRY

CN Quinolinium, 4-(dimethylamino)-1-methyl-6-[[[6-[[(1-methylquinolinium-6-yl)amino]carbonyl]-2-pyridinyl]carbonyl]amino]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C29 H28 N6 O2

CI COM

SR CA

L42 ANSWER 12 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 794458-47-2 REGISTRY

CN Quinolinium, 6,6'-[2,6-pyridinediylbis(carbonylimino)]bis[1-methyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C27 H23 N5 O2

CI COM

SR CA

L42 ANSWER 13 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 792902-07-9 REGISTRY

CN 2,5-Pyridinedicarboxamide, N,N'-bis(4-amino-2-methyl-6-quinolinyl)- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C27 H23 N7 O2

CI COM

SR CA

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L42 ANSWER 14 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN RN 770704-51-3 REGISTRY

CN 2,6-Pyridinedicarboxamide, N,N'-bis(4-amino-2-methyl-6-quinolinyl)- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C27 H23 N7 O2

CI COM

SR CA

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L42 ANSWER 15 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 752979-06-9 REGISTRY

CN 2,6-Pyridinedicarboxamide, N,N'-bis[4-(dimethylamino)-2-methyl-6-quinolinyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C31 H31 N7 O2

CI COM

SR CA

L42 ANSWER 16 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 737694-58-5 REGISTRY

CN Quinolinium, 6,6'-[9H-fluorene-2,7-diylbis(carbonylimino)]bis[1-butyl-(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C41 H40 N4 O2

CI COM

SR CA

L42 ANSWER 17 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 500355-85-1 REGISTRY

CN 1,4-Benzenedicarboxamide, N,N'-bis(6-methoxy-8-quinolinyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN NSC 111336

FS 3D CONCORD MF C28 H22 N4 O4

SR Chemical Library

PAGE 1-A

PAGE 2-A

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L42 ANSWER 18 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 500350-75-4 REGISTRY

CN 1,4-Benzenedicarboxamide, N,N'-bis(2-methyl-4-quinolinyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN NSC 110318

FS 3D CONCORD

MF C28 H22 N4 O2

SR Chemical Library

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L42 ANSWER 19 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 452366-12-0 REGISTRY

CN 2,5-Thiophenedicarboxamide, N,N'-di-8-quinolinyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C24 H16 N4 O2 S

SR Chemical Library

LC STN Files: CHEMCATS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L42 ANSWER 20 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 452366-11-9 REGISTRY

CN 2,5-Thiophenedicarboxamide, N,N'-di-5-quinolinyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C24 H16 N4 O2 S

SR Chemical Library

LC STN Files: CHEMCATS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L42 ANSWER 21 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 413612-53-0 REGISTRY

CN 1,4-Benzenedicarboxamide, N,N'-di-4-quinolinyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C26 H18 N4 O2

SR Chemical Library

LC STN Files: CHEMCATS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L42 ANSWER 22 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 313666-94-3 REGISTRY

CN 1,3-Benzenedicarboxamide, N,N'-di-3-quinolinyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C26 H18 N4 O2

SR Chemical Library

LC STN Files: CHEMCATS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L42 ANSWER 23 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 313548-64-0 REGISTRY

CN 2,5-Pyridinedicarboxamide, N,N'-di-3-quinolinyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C25 H17 N5 O2

SR Chemical Library

LC STN Files: CHEMCATS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L42 ANSWER 24 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 304885-03-8 REGISTRY

CN 1,3-Benzenedicarboxamide, 2,4,5,6-tetrafluoro-N,N'-di-8-quinolinyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C26 H14 F4 N4 O2

SR Chemical Library

LC STN Files: CHEMCATS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L42 ANSWER 25 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 304885-02-7 REGISTRY

CN 1,3-Benzenedicarboxamide, 2,4,5,6-tetrafluoro-N,N'-di-3-quinolinyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C26 H14 F4 N4 O2

SR Chemical Library

LC STN Files: CHEMCATS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L42 ANSWER 26 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 50570-07-5 REGISTRY

CN Quinolinium, 6,6'-[1,4-phenylenebis(carbonylimino)]bis[1-(2-butoxyethyl)-(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C38 H44 N4 O4

CI COM

LC STN Files: BEILSTEIN*

(*File contains numerically searchable property data)

L42 ANSWER 27 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 50569-65-8 REGISTRY

CN Quinolinium, 6,6'-[1,4-phenylenebis(carbonylimino)]bis[1-(2-ethoxyethyl)-(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C34 H36 N4 O4

CI COM

LC STN Files: BEILSTEIN*

(*File contains numerically searchable property data)

L42 ANSWER 28 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 50569-49-8 REGISTRY

CN Quinolinium, 6,6'-[1,3-phenylenebis(carbonylimino)]bis[1-butyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C34 H36 N4 O2

CI COM

LC STN Files: BEILSTEIN*

(*File contains numerically searchable property data)

$$\begin{array}{c|c} & & & \\ & & & \\$$

L42 ANSWER 29 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 50569-47-6 REGISTRY

CN Quinolinium, 7,7'-[1,4-phenylenebis(carbonylimino)]bis[1-butyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C34 H36 N4 O2

CI COM

LC STN Files: BEILSTEIN*

(*File contains numerically searchable property data)

L42 ANSWER 30 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 50569-46-5 REGISTRY

CN Quinolinium, 7,7'-[1,3-phenylenebis(carbonylimino)]bis[1-butyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C34 H36 N4 O2

CI COM

LC STN Files: BEILSTEIN*

(*File contains numerically searchable property data)

L42 ANSWER 31 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 50569-42-1 REGISTRY

OTHER CA INDEX NAMES:

CN Quinolinium, 5,5'-(terephthaloyldiimino)bis[1-butyl- (8CI)

FS 3D CONCORD

DR 14106-86-6

MF C34 H36 N4 O2

CI COM

LC STN Files: BEILSTEIN*

(*File contains numerically searchable property data)

L42 ANSWER 32 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN RN50568-78-0 REGISTRY CNQuinolinium, 6,6'-[1,3-phenylenebis(carbonylimino)]bis[1-ethyl- (9CI) (CA INDEX NAME) FS 3D CONCORD MF C30 H28 N4 O2 CI COM LC STN Files: BEILSTEIN* (*File contains numerically searchable property data)

ANSWER 33 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN L42 RN 50568-77-9 REGISTRY Quinolinium, 7,7'-[1,4-phenylenebis(carbonylimino)]bis[1-ethyl- (9CI) CN (CA INDEX NAME) FS 3D CONCORD C30 H28 N4 O2 MF CI COM LC STN Files: BEILSTEIN* (*File contains numerically searchable property data)

10721,210

L42 ANSWER 34 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 50568-76-8 REGISTRY

CN Quinolinium, 7,7'-[1,3-phenylenebis(carbonylimino)]bis[1-ethyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C30 H28 N4 O2

CI COM

LC STN Files: BEILSTEIN*

(*File contains numerically searchable property data)

L42 ANSWER 35 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 50568-74-6 REGISTRY

CN Quinolinium, 5,5'-[1,4-phenylenebis(carbonylimino)]bis[1-ethyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C30 H28 N4 O2

CI COM

LC STN Files: BEILSTEIN*

(*File contains numerically searchable property data)

L42 ANSWER 36 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 50568-73-5 REGISTRY

CN Quinolinium, 5,5'-[1,3-phenylenebis(carbonylimino)]bis[1-ethyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C30 H28 N4 O2

CI COM

LC STN Files: BEILSTEIN*

(*File contains numerically searchable property data)

L42 ANSWER 37 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 50568-01-9 REGISTRY

CN Quinolinium, 6,6'-[1,4-phenylenebis(carbonylimino)]bis[1,2-dimethyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C30 H28 N4 O2

CI COM

L42 ANSWER 38 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 50567-60-7 REGISTRY

CN Quinolinium, 6,6'-[2,5-furandiylbis(carbonylimino)]bis[1-methyl- (9CI)

(CA INDEX NAME)

FS 3D CONCORD

DR 50567-91-4

MF C26 H22 N4 O3

CI COM

L42 ANSWER 39 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 47858-54-8 REGISTRY

CN Quinolinium, 6,6'-[(2-nitro-1,4-phenylene)bis(carbonylimino)]bis[1-pentyl-(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C36 H39 N5 O4

CI COM

L42 ANSWER 40 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 47845-76-1 REGISTRY

CN Quinolinium, 6,6'-[(2-nitro-1,4-phenylene)bis(carbonylimino)]bis[1-butyl-(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C34 H35 N5 O4

CI COM

$$\begin{array}{c} & & & \\ & &$$

L42 ANSWER 41 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 47845-75-0 REGISTRY

CN Quinolinium, 6,6'-[(2-amino-1,4-phenylene)bis(carbonylimino)]bis[1-pentyl-(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C36 H41 N5 O2

CI COM

LC STN Files: BEILSTEIN*

(*File contains numerically searchable property data)

L42 ANSWER 42 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 47834-40-2 REGISTRY

CN Quinolinium, 6,6'-[2,5-pyridinediylbis(carbonylimino)]bis[1-pentyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C35 H39 N5 O2

CI COM

LC STN Files: BEILSTEIN*

(*File contains numerically searchable property data)

L42 ANSWER 43 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 47827-75-8 REGISTRY

CN Quinolinium, 6,6'-[(2-amino-1,4-phenylene)bis(carbonylimino)]bis[1-butyl-(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C34 H37 N5 O2

CI COM

LC STN Files: BEILSTEIN*

(*File contains numerically searchable property data)

$$\bigcap_{N+1}^{0}\bigcap_{N+2}^{0}\bigcap_{N+2}^{N+1}\bigcap_{N+2}^{N+2}\bigcap_{N+2}$$

L42 ANSWER 44 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 47812-61-3 REGISTRY

CN Quinolinium, 6,6'-[(2-nitro-1,4-phenylene)bis(carbonylimino)]bis[1-ethyl-(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C30 H27 N5 O4

CI COM

L42 ANSWER 45 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 47801-67-2 REGISTRY

CN Quinolinium, 6,6'-[2,5-pyridinediylbis(carbonylimino)]bis[1-propyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C31 H31 N5 O2

CI COM

LC STN Files: BEILSTEIN*

(*File contains numerically searchable property data)

L42 ANSWER 46 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 47793-44-2 REGISTRY

CN Quinolinium, 6,6'-[(2-nitro-1,4-phenylene)bis(carbonylimino)]bis[1-methyl-(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C28 H23 N5 O4

CI COM

L42 ANSWER 47 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 47792-83-6 REGISTRY

CN Quinolinium, 6,6'-[(2-amino-1,4-phenylene)bis(carbonylimino)]bis[1-ethyl-

(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C30 H29 N5 O2

CI COM

LC STN Files: BEILSTEIN*

(*File contains numerically searchable property data)

L42 ANSWER 48 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 47776-45-4 REGISTRY

CN Quinolinium, 6,6'-[2,5-pyridinediylbis(carbonylimino)]bis[1-ethyl- (9CI)

(CA INDEX NAME)

FS 3D CONCORD

MF C29 H27 N5 O2

CI COM

LC STN Files: BEILSTEIN*

(*File contains numerically searchable property data)

L42 ANSWER 49 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 47766-43-8 REGISTRY

CN Quinolinium, 6,6'-[(2-chloro-1,4-phenylene)bis(carbonylimino)]bis[1-methyl-

(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C28 H23 C1 N4 O2

CI COM

L42 ANSWER 50 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 47749-41-7 REGISTRY

CN Quinolinium, 6,6'-[2,5-pyridinediylbis(carbonylimino)]bis[1-methyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C27 H23 N5 O2

CI COM

LC STN Files: BEILSTEIN*

(*File contains numerically searchable property data)

L42 ANSWER 51 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 14242-17-2 REGISTRY

CN Quinolinium, 5,5'-[1,3-phenylenebis(carbonylimino)]bis[1-butyl-, salt with 4-methylbenzenesulfonic acid (1:2), monohydrate (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:

CN Quinolinium, 5,5'-(isophthaloyldiimino)bis[1-butyl-, di-p-toluenesulfonate, monohydrate (8CI)

MF C34 H36 N4 O2 . 2 C7 H7 O3 S . H2 O

CM 1

CRN 18519-78-3

CMF C34 H36 N4 O2 . 2 C7 H7 O3 S

CM 2

CRN 16722-51-3 CMF C7 H7 O3 S

CM 3

CRN 14106-87-7 CMF C34 H36 N4 O2

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L42 ANSWER 53 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN
     14106-85-5 REGISTRY
RN
     Quinolinium, 6,6'-[(2-aminoterephthaloyl)diimino]bis[1-propyl- (8CI) (CA
CN
     INDEX NAME)
FS
     3D CONCORD
     C32 H33 N5 O2
MF
CI
     COM
LC
     STN Files:
                  BEILSTEIN*
         (*File contains numerically searchable property data)
```

L42 ANSWER 54 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 14106-84-4 REGISTRY

CN Quinolinium, 6,6'-[(2-nitroterephthaloyl)diimino]bis[1-propyl- (8CI) (CA INDEX NAME)

FS 3D CONCORD

MF C32 H31 N5 O4

CI COM

$$\begin{array}{c} n-Pr \\ N+ \\ N-Pr \end{array}$$

L42 ANSWER 55 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 14106-83-3 REGISTRY

CN Quinolinium, 6,6'-[2,5-pyridinediylbis(carbonylimino)]bis[1-butyl- (8CI) (CA INDEX NAME)

FS 3D CONCORD

MF C33 H35 N5 O2

CI COM

LC STN Files: BEILSTEIN*

(*File contains numerically searchable property data)

L42 ANSWER 56 OF 56 REGISTRY COPYRIGHT 2005 ACS on STN

RN 14106-79-7 REGISTRY

CN Quinolinium, 6,6'-(terephthaloyldimino)bis[1-(2-methoxyethyl)- (8CI) (CA INDEX NAME)

FS 3D CONCORD

MF C32 H32 N4 O4

CI COM

=>

LC STN Files: BEILSTEIN*

(*File contains numerically searchable property data)

$$\begin{array}{c} \text{MeO_CH}_2\text{_CH}_2\\ \text{N+}\\ \text{NH-}\\ \text{C}\\ \text{NH-}\\ \text{C}\\ \text{NH-}\\ \text{NH-}\\ \text{C}\\ \text{NH-}\\ \text{NH-}\\ \text{NH-}\\ \text{C}\\ \text{NH-}\\ \text{NH-}\\ \text{C}\\ \text{NH-}\\ \text{NH-}\\ \text{C}\\ \text{NH-}\\ \text{NH-}\\ \text{NH-}\\ \text{C}\\ \text{NH-}\\ \text$$

99